

LISTING OF THE CLAIMS:

1. (Previously Presented) A method for identifying cellular protein antigens, to which a subject with cancer produces autoantibodies, said method consisting of: (a) extracting proteins from a sample of cells; (b) separating the extracted proteins by two-dimensional electrophoresis; (c) transferring the proteins separated by two-dimensional electrophoresis to a membrane; (d) incubating the membrane with serum from a subject known to have the cancer; (e) detecting the proteins to which autoantibodies in the patients serum have bound; and (f) comparing the proteins to which antibodies in the subject's serum sample bind to proteins to which antibodies in control serum sample bind, wherein those proteins bound by antibodies in the subject's serum but not the control serum are identified as cellular protein antigens to which a subject with cancer produces autoantibodies.

2. (Original) The method of claim 1 wherein the sample of cells is derived from the subject's tumor.

3. (Canceled)

4. (Original) The method of claim 1 wherein the step of detecting the proteins to which autoantibodies in the subject's serum sample have bound comprises the use of a signal-generating component bound to an antibody that is specific for antibodies in the subject's sample.

5-21. (Canceled)